BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work **Asphalting to Roads and improvements to drains in Thirumalanagara Main road 4th and 5th cross roads of Attur ward no.03**

Estimate Amount : 5000000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	***76.00***							
	Area Wieght age @ 6%	***4.56***							
	Total Rate in Rs	***80.56***							
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	LHS								
	Ch: (63 - 82)		1	19	0.90		17.10		
	Ch: (100 - 110)		1	10	1.20		12.00		
	Ch: (128 - 177)		1	49	0.90		44.10		
	Ch: (185 - 280)		1	95	0.90		85.50		
	RHS								
	Ch: (63 - 82)		1	19	0.90		17.10		
	Ch: (91 - 100)		1	9	0.90		8.10		
	Ch: (110 - 118)		1	8	0.90		7.20		
	Ch: (167 - 280)		1	113	0.90		101.70		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	LHS								
	Ch: (0 - 18.5)		1	18.5	0.90		16.65		
	Ch: (111 - 148)		1	37	0.90		33.30		
	Ch: (206 - 210)		1	4	0.90		3.60		
	RHS								
	Ch: (0 - 18.5)		1	18.5	0.90		16.65		
	Ch: (37 - 56)		1	19	0.75		14.25		
	Ch: (84 - 94)		1	10	1.20		12.00		
	Ch: (111 - 148)		1	37	0.90		33.30		
	Ch: (159 - 188)		1	29	0.90		26.10		
	Ch: (197 - 210)		1	13	0.90		11.70		
							460.35		
	Deduction for damaged 22%						**-101.28**		
							359.07	**80.56**	**28926.92**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***82.00***							
	Area Wieght age @ 6%	***4.92***							
	Total Rate in Rs	***86.92***							
	Desilting								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	LHS								
	Ch: (0 - 73)		1	73	0.50	0.400	14.60		
	RHS								
	Ch: (0 - 73)		1	73	0.50	0.400	14.60		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	LHS								
	Ch: (0 - 306)		1	306	0.50	0.400	61.20		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	RHS								
	Ch: (0 - 306)		1	306	0.50	0.400	61.20		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	LHS								
	Ch: (0 - 210)		1	210	0.50	0.400	42.00		
	RHS								
	Ch: (0 - 210)		1	210	0.50	0.400	42.00		
							235.60	86.92	20478.35
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick								
	Data rate								
		Sqm							
	Total Rate in Rs	779.00							
	Area Wieght age @ 6%	46.74							
	Total Rate in Rs	825.74							
	for damaged drain						101.28		
							101.28	825.74	83628.47
	Sub total-1								133033.74
	ROAD WORKS								
4	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	46.00							
	Area Wieght age @ 6%	2.76							
	Total Rate in Rs	48.76							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50	0.400	160.60		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00	0.400	734.40		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30	0.400	445.20		
							1340.20	48.76	65348.15
5	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	1571.00							
	Area Wieght age @ 6%	94.26							
	Total Rate in Rs	1665.26							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50	0.150	60.23		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00	0.150	275.40		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30	0.150	166.95		
							502.58	**1665.26**	**836918.04**
6	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(Page No 158., I.No.20.18 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***1668.00***							
	Area Wieght age @ 6%	***100.08***							
	Total Rate in Rs	***1768.08***							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50	0.225	90.34		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00	0.225	413.10		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30	0.225	250.43		
							753.86	**1768.08**	**1332889.21**
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502								
	(Page No 161., I.No.21.6 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	***26.00***							
	Area Wieght age @ 6%	***1.56***							
	Total Rate in Rs	***27.56***							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50		401.50		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00		1836.00		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30		1113.00		
							3350.50	**27.56**	**92339.78**
8	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								

Sl. No.	Description of item	Unit	Nos	Dimension L in m	B in m	D in m	Total Qty	Rate in Rs	Amount in Rs
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	***11.00***							
	Area Wieght age @ 6%	***0.66***							
	Total Rate in Rs	***11.66***							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50		401.50		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00		1836.00		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30		1113.00		
							3350.50	**11.66**	**39066.83**
9	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***6071.00***							
	Area Wieght age @ 6%	***364.26***							
	Total Rate in Rs	***6435.26***							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50	0.050	20.08		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00	0.050	91.80		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30	0.050	55.65		
							167.53	**6435.26**	**1078066.93**
10	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509								
	(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***6859.00***							
	Area Wieght age @ 6%	***411.54***							
	Total Rate in Rs	***7270.54***							
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		1	73	5.50	0.030	12.05		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		1	306	6.00	0.030	55.08		
	5th Cross Road From Cross Road-1 to 1st Main Road								
	Ch: (0 - 210)		1	210	5.30	0.030	33.39		
							100.52	**7270.54**	**730798.33**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
11	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms. **.(Refer Table. Page No.140)**								
		Cum.							
	Basic rate	***90.40***							
	Total Rate in Rs	***90.40***							
				For item no	2		235.60		
				For item no	4		1340.20		
							1575.80	**90.40**	**142452.32**
	Sub total-2								**4317879.59**
	ROAD FURNITURES								
12	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	**512.00**							
	Area Wieght age @ 6%	***30.72***							
	Total Rate in Rs	***542.72***							
	Road Marking								
	new contruction								
	1st Main Road From 4th Cross Road to 6th Cross Road								
	Ch: (0 - 73)		2	73	0.10		14.60		
	6th Cross Road From 1st Main road to Veera Sagar Road (Aruna pinewoods Appartments)								
	Ch: (0 - 306)		2	306	0.10		61.20		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	5th Cross Road From Cross Road-1 to 1st Main Road						42.00		
	Ch: (0 - 210)		2	210	0.10		117.80	542.72	63932.42
									63932.42
	Sub Total-3								4516551.07
	Total								45165.51
13	Cost towards Preperation of DPR,PMC/QC @ 1%								30612.85
14	Cost of Plastic@ 8% of bitumen qty for BC	Kg	1	1133.81				27.00	406489.60
15	**Cost towards KIRDL Charges @ 9%**								1180.97
16	Misellenous and other charges								5000000.00
	Grand Total								

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Consultant:
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:3
BBMP

AEE
yelahanka Sub division
BBMP

Executive Engineer
yelahanka division
BBMP

Technical Sanction
Accorded For ..... 50.00 lakh Rs
Head of A/C..... P3089
CER NO :..... 207 Dt:.. 24/03/17

TA. CE (YNK).

ADMINISTRATIVELY SANCTIONED FOR Rs 50.00 lakhs
Rupees Fifty lakhs only
Under P-3089
Registered as EE( )
Subject to certificate
enclosed memo EE( )
Dt
JC(4)/ad/ /30/6-17
dated 16-3-2017 Rs 50.00 lakhs.

Joint Commissioner
(Yelahanka Zone)
BBMP Bengaluru-92